

Notice of Allowability	Application No.	Applicant(s)	
	10/632,183	BARTLEY ET AL.	
	Examiner Binh C. Tat	Art Unit 2825	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to 11/30/05.
2. The allowed claim(s) is/are 1,3-11,13 and 14.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some* c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date 12/09/05.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Joan Pennington on 12/09/05.

The application has been amended as follow:

Claim 1 line 10 after “mesh plane”; insert --, and wherein the step of selecting said fill method includes the steps of providing a plurality of fill methods, said fill methods including selected ones of a crosshair fill method, a single line fill method, a signal mirror fill method, a mesh shifting fill method, a corner fill method, and a complete fill method; and selecting one or a combination of said fill methods--.

Claim 2 has been canceled.

Claim 11 lines 12 after “mesh plane”; insert --, and wherein the step of selecting said fill method includes the steps of providing a plurality of fill methods, said fill methods including selected ones of a crosshair fill method, a single line fill method, a signal mirror fill method, a mesh shifting fill method, a corner fill method, and a complete fill method; and selecting one or a combination of said fill methods--.

Claim 12 has been canceled.

Claim 13 line 2 change “claim 12” to – claim 13--.

Claim 14 line 2 change "claim 12" to – claim 13--.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

2. Claims 1, 3-11, 13, and 14 are allowed because the prior art does not teach or suggest a method for creating customized mesh planes in electronic packages comprising the steps of: comparing signal traces in each adjacent plane to a mesh plane with a mesh layout of the mesh plane; identifying signal traces in each adjacent plane to the mesh plane adjacent to mesh holes in the mesh layout; selecting a fill method to replace selected mesh holes with added mesh structure of the mesh plane aligned with the identified signal traces in each adjacent plane to the mesh plane, and wherein the step of selecting said fill method includes the steps of providing a plurality of fill methods, said fill methods including selected ones of a crosshair fill method, a single line fill method, a signal mirror fill method, a mesh shifting fill method, a corner fill method, and a complete fill method; and selecting one or a combination of said fill methods.
3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh C. Tat whose telephone number is (703) 305-4855. The examiner can normally be reached on 7:30 - 4:00 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mathew Smith can be reached on (703) 308-1323. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tat Binh
Patent Examiner
December 9, 2005


MATTHEW SMITH
PATENT EXAMINER
TELESCOPY CENTER 2800